

AFOSR Principal Investigator Wins APS Will Allis Prize, Additional Recognition

Dr. Raymond Flannery, an AFOSR principal investigator at the Georgia Institute of Technology, has won the 1998 Will Allis Prize of the American Physical Society (APS) for his study of ionized gases. The APS recognized Dr. Flannery "for advancing the understanding of recombination processes, in particular for developing a microscopic theory of three-body ionic recombination; and for his novel applications of classical and quantum mechanical methods to the dynamics of atomic, molecular, and ionic systems."

Dr. Flannery's expertise is in the theory of atomic and molecular collision processes, particularly recombination processes at thermal and ultra-cold energies. The research cited by the APS - the microscopic theory of three-body recombination and novel applications - was developed under sole AFOSR sponsorship.

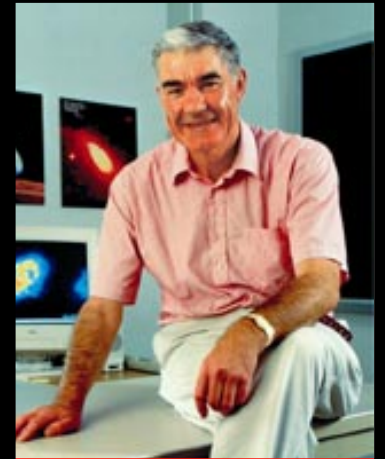
Dr. Flannery is also working on theories of three-body atom-atom recombination for dimer formation in the Bose-Einstein condensate. His work is applicable to understanding anti-hydrogen production in positron-antiproton plasma at cryogenic temperatures and of three-body, electron-ion recombination at ultracold (milli-Kelvin) temperatures. He has also widely contributed to the theory of heavy-particle collisions, electron-excited atom collisions, Rydberg collisions, and ion-molecule reactions.

The APS prize came on the heels of Flannery's recent induction as one of 30 worldwide honorary members of the Royal Irish Academy. His alma mater, the Queen's University of Belfast, has also conferred on him the degree of Doctor of Science (honors causa) for "his distinction as a physicist."

Dr. Flannery noted, "The Royal Irish Academy, the American Physical Society, the Queen's University have all cited my work on recombination, supported exclusively by AFOSR."

Dr. Ralph Kelley
Directorate of Physics and Electronics
703-696-8599, DSN 426-8599

Dr. Raymond Flannery, Regents' Professor
School of Physics, Georgia Institute of Technology,
Atlanta, GA. 30332-0430
Tel: 404-894-5263 Fax: 404-894-1101
E-mail: ray.flannery@physics.gatech.edu
<http://www.physics.gatech.edu/people/faculty/flannery>
<http://www.physics.gatech.edu/people/faculty/rflannery.html>



Dr. Raymond Flannery

1998 Recognition as
World-Class Researcher

- Received American Physical Society's 1998 Will Allis prize
- Inducted as worldwide honorary member of Royal Irish Academy
- University of Belfast confers honorary Doctor of Science degree